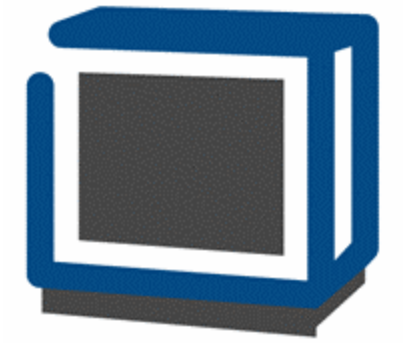
SONY

BID SPECIFICATION
FOR
BROADCAST CRT MONITORS



MODEL NUMBER
BVM-F24U

INSTRUCTIONS:
REMOVE THIS COVER PAGE AND ADD TO REQUESTS FOR QUOTATION AND PROPOSALS. THE OBJECTIVE OF THIS BID SPECIFICATION IS TO ASSIST YOU IN CLEARLY SPECIFYING THE SONY PRODUCT IDENTIFIED ABOVE, AND ENSURING THAT THE BUYER IS WELL INFORMED OF THE HIGH STANDARD OF PERFORMANCE THAT IS TO BE EXPECTED OF A SONY PRODUCT. THE INFORMATION IN THIS DOCUMENT IS CURRENT AS OF JUNE 2002. PRODUCT SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

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1.0 General Information

The purpose of this information is to provide the specification for a product whose primary purpose is the reproduction of video and / or computer graphics information for one or more viewers.

This reproduction of this information is to be accomplished via a direct-view CRT monitor. This document provides the minimum specifications for this device.

The performance comparison of displays is not only technical in nature, but is also subjective to the user, when viewed in the final display environment. It is recommended that devices meeting the requirements of this specification be compared in the user's application and environment, if possible.

2.0 Description

This product shall be classified as a direct-view CRT color monitor, or production display. This device shall be directly compatible with video sources, without the use of external devices to provide this compatibility.

This device shall employ the use of an HR Trinitron CRT for optimum display of high-resolution sources.

This device shall employ a shape that allows for rack mounting in a 19" EIA standard rack, using an optional rackmount kit. This device shall be housed in a metal casing for durability.

3.0 Source Compatibility / Suitability for Application

3.1 Compatible Display Formats

1920 X 1080/24P (displayed as 1:1)
1920 X 1080/24P (displayed as 1:1.001)
1920 X 1080/25P (displayed as 1:1)
1920 X 1080/30P (displayed as 1:1)
1920 X 1080/30P (displayed as 1:1.001)
1920 X 1080/50P (displayed as 1:1)
1920 X 1080/60P (displayed as 1:1)
1920 X 1080/60P (displayed as 1:1.001)
1920 X 1080/24Psf (displayed as 1:1)
1920 X 1080/24Psf (displayed as 1:1.001)
1920 X 1080/25Psf (displayed as 1:1)
1920 X 1080/30Psf (displayed as 1:1)
1920 X 1080/30Psf (displayed as 1:1.001)
1280 X 720/60/1:1

1920 X 1080/50/2:1
1920 X 1080/60/2:1
1280 X 1024/75/1:1 VESA (5:4 aspect ratio)
1280 X 1024/85/1:1 VESA (5:4 aspect ratio)

Note: 24, 25, and 30 frame rate video must have the ability to be displayed at dual or triple vertical rate to remove frame flicker.

3.2 Compatible Input Formats

SMPTE 292M serial digital video
SMPTE 372M serial digital 4:4:4 dual link
RGB analog

4.0 User Interface / Controllability Information

Control of this device shall be accomplished through one of the following methods:

Parallel Remote Control
RS-485 Serial Control

The optional parallel remote control shall provide access to all monitor setup functions.

The serial control jack shall employ the use of a standardized device control protocol that is understood by external control unit available as an accessory. This control jack shall accept bi-directional serial commands that provide full control over the device.

All monitor control functions shall be available for control through the serial control jack. This jack shall be capable of connection to an optional serial controller that is capable of controlling up to 32 monitors. This optional controller shall be capable of storing monitor settings using a Type II PCMCIA flash card.

The following device functions shall be available for control:
Power On / off
Input Select
Brightness / Contrast
Blue Only
Overscan / Underscan
H/V Delay
Degauss
4:3 / 16:9 Aspect Ratio
Color Temperature
Auto Picture Setup
On Screen Display Functions

Auto Landing
Uniformity Adjustments
Digital Convergence Adjustments

5.0 Performance Specifications

This device shall employ the use of an aperture grille CRT with a maximum dot pitch of 0.25mm. The minimum native CRT resolution shall be 1000 lines. The CRT shall employ the use of SMPTE-C phosphors.

This device shall employ an optional control unit design ideal for space-critical or remote environments. This separate unit shall easily attach to the bottom of the monitor for table or shelf installation.

This device shall include auto white balance functions, and shall be equipped with color temperature alignment system for easy set-up with industry standard color analyzers. Different colorimetery settings shall be able to be recalled for ITU or Electronic Cinema production or film applications.

This device shall provide color temperature stability using a beam current feedback circuit.

This device shall include a built in frame rate converter to minimize flicker with low frame rate sources.

This device shall accept SXGA computer signals for use with computer graphics sources.

This device shall include digital point convergence for complete RGB convergence accuracy within the image area. A built-in test pattern generator shall be included for assistance in convergence and other monitor setup functions.

This device shall employ the use of various area markers, including cross marker, safe title, aspect marker, black and semi-transparent matte.

This device shall include a 16:9 tube with the ability to display 4:3 format video.

6.0 Dimensional Information

This device shall employ the use of a 24” diagonal (21.8” viewable) CRT.

This device shall have maximum cabinet dimensions of 17.25 inches high by 22.38 inches wide and 24.13 inches deep.

This device shall not weigh more than 120 pounds.

7.0 Connectivity Information

This device shall provide for connection of 2 source devices simultaneously, without employing the use of an external switching device. These connections shall include the following:

RGB on three BNC Connectors

Dual Link HD-SDI on two BNC Connectors with loop-through

8.0 Power Requirements

This device shall accept power at 100- 240 VAC at either 50 or 60 Hz.

This device shall consume no more than 225 watts.

Power to this device shall be supplied via a detachable standard power cord that is readily available for replacement from local suppliers.

9.0 Safety Compliance Information

This device shall be fully compliant with the following standards:

UL 1950
CSA 22.2 No.950
FCC Class A
IC Class A
DHHS/DNHW

10.0 Warranty Information

This device shall carry a 2-year manufacturer's warranty. Authorized servicing dealers of the devices' manufacturer shall perform warranty service.